

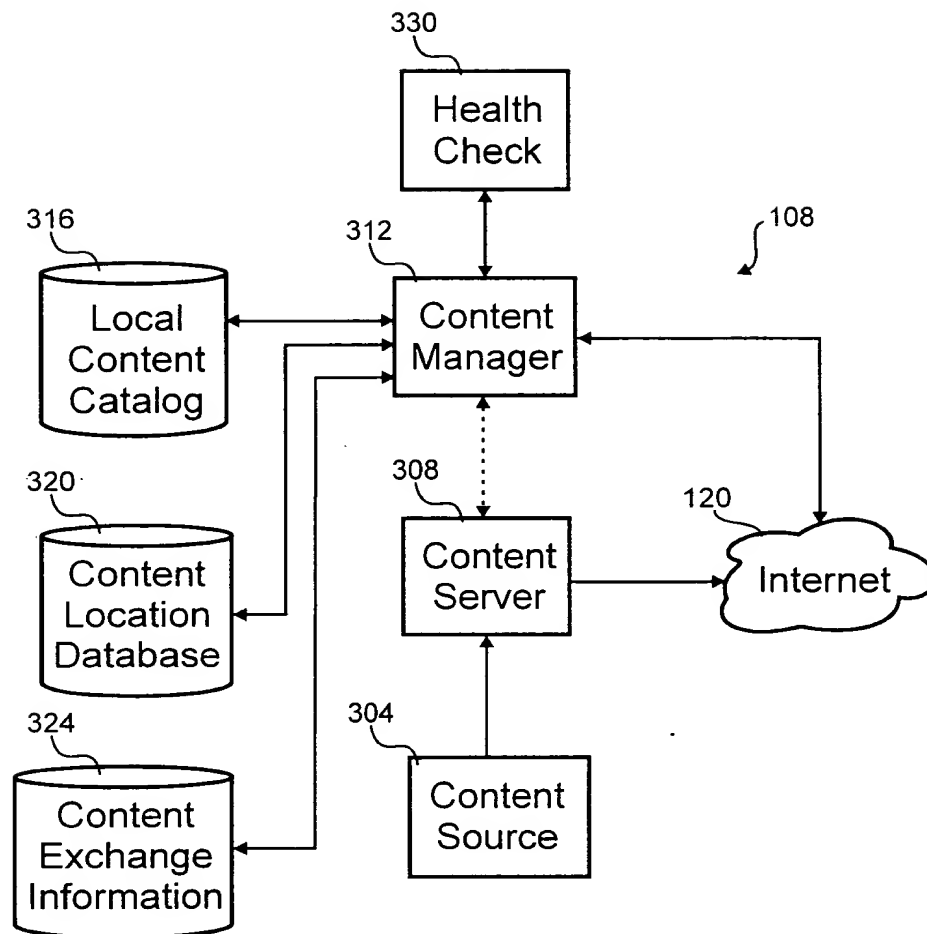
[illegible]

Fig. 3A

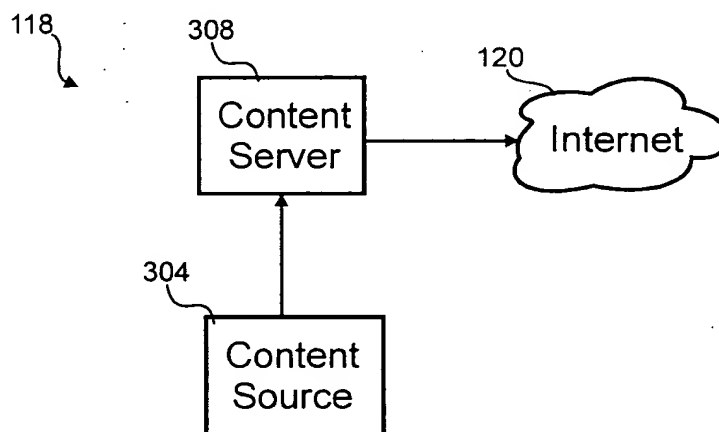


Fig. 3B

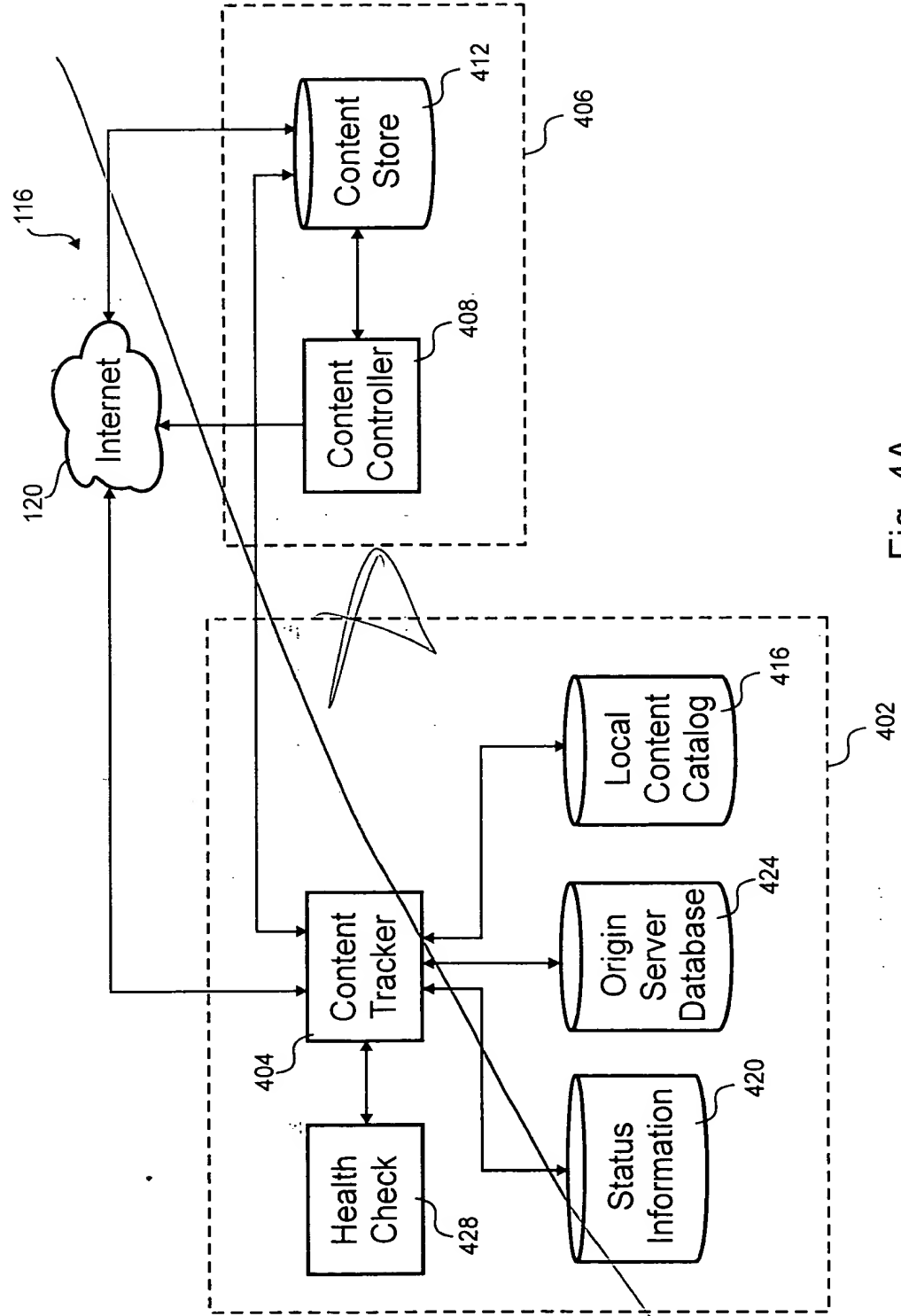


Fig. 4A

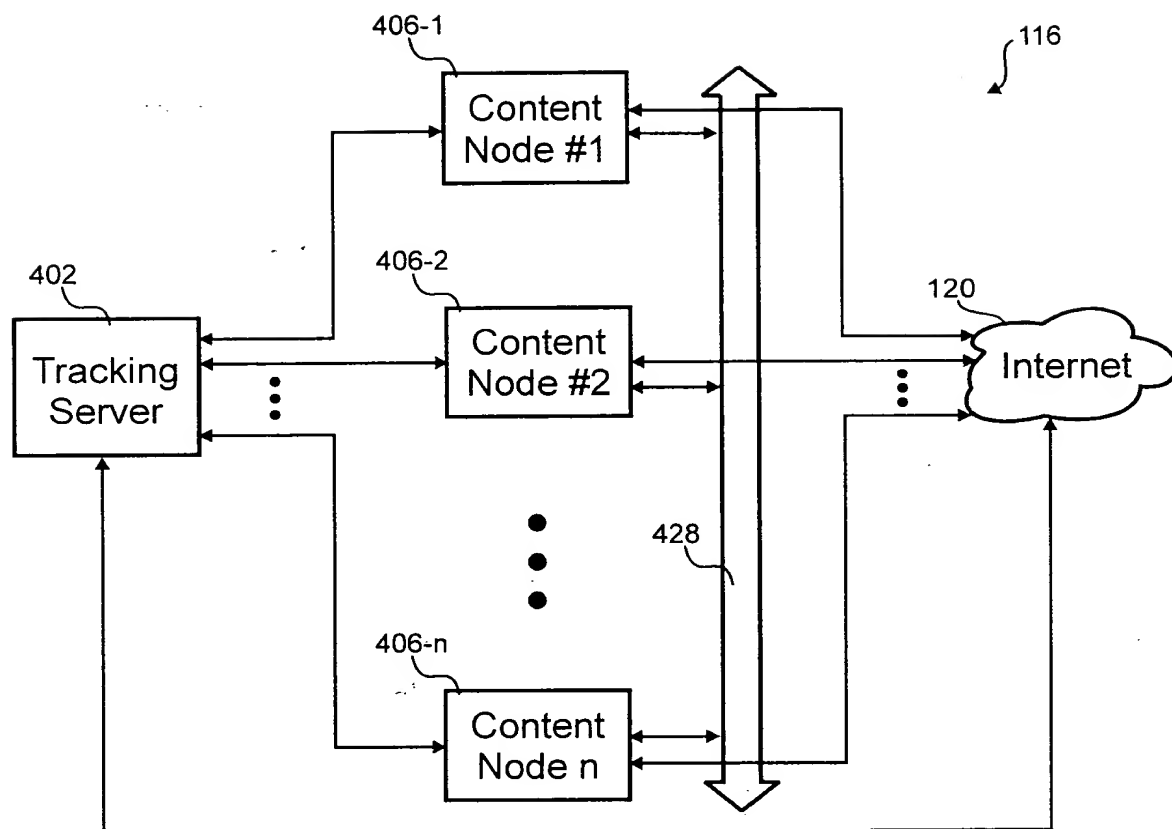
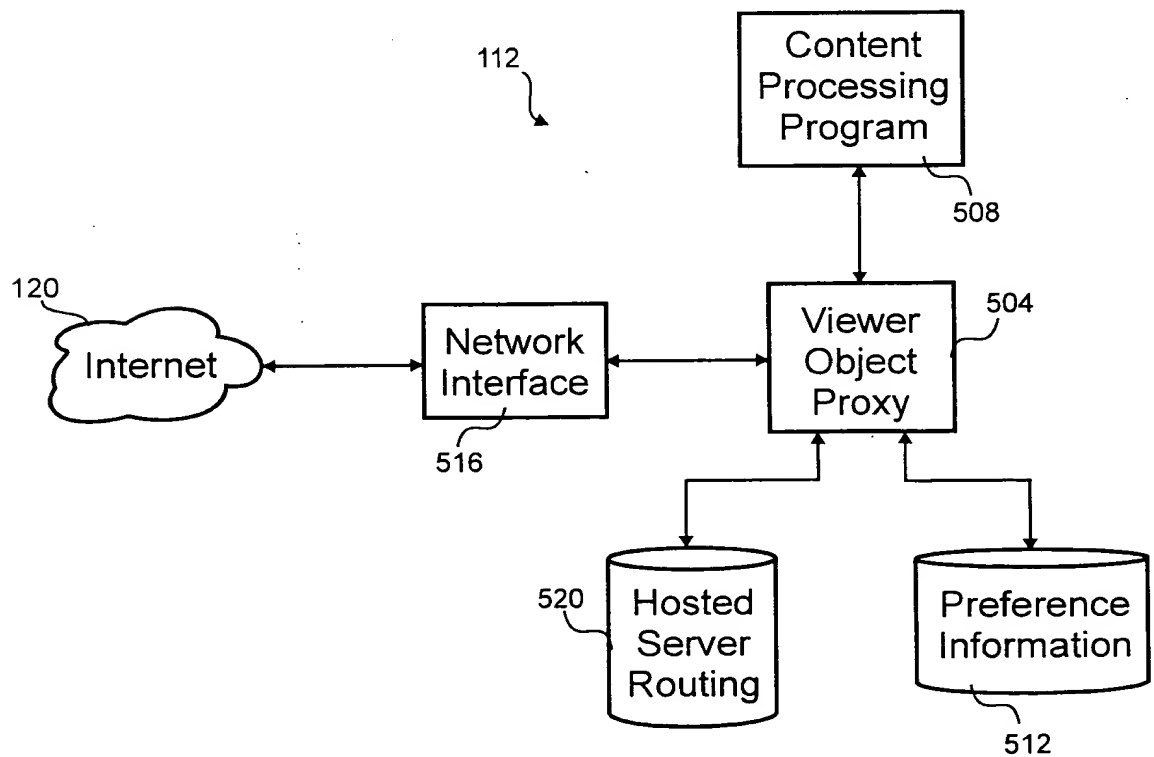
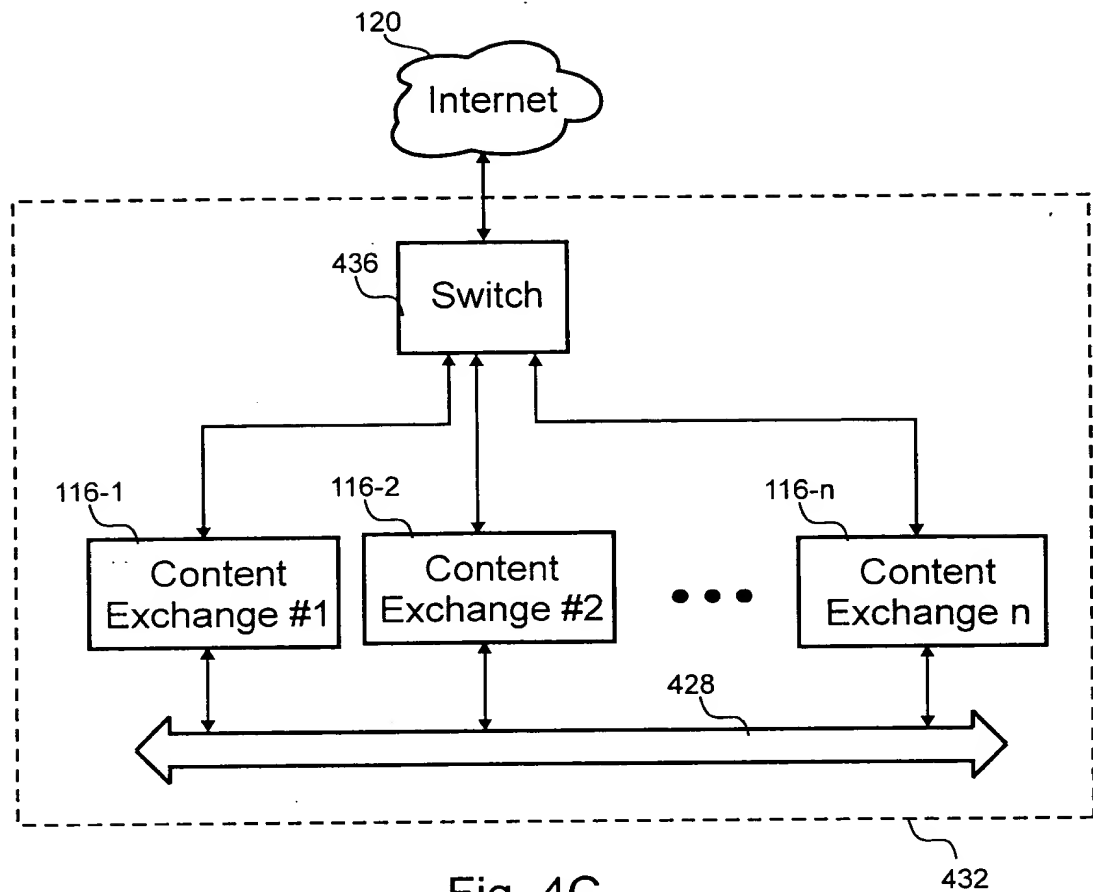


Fig. 4B



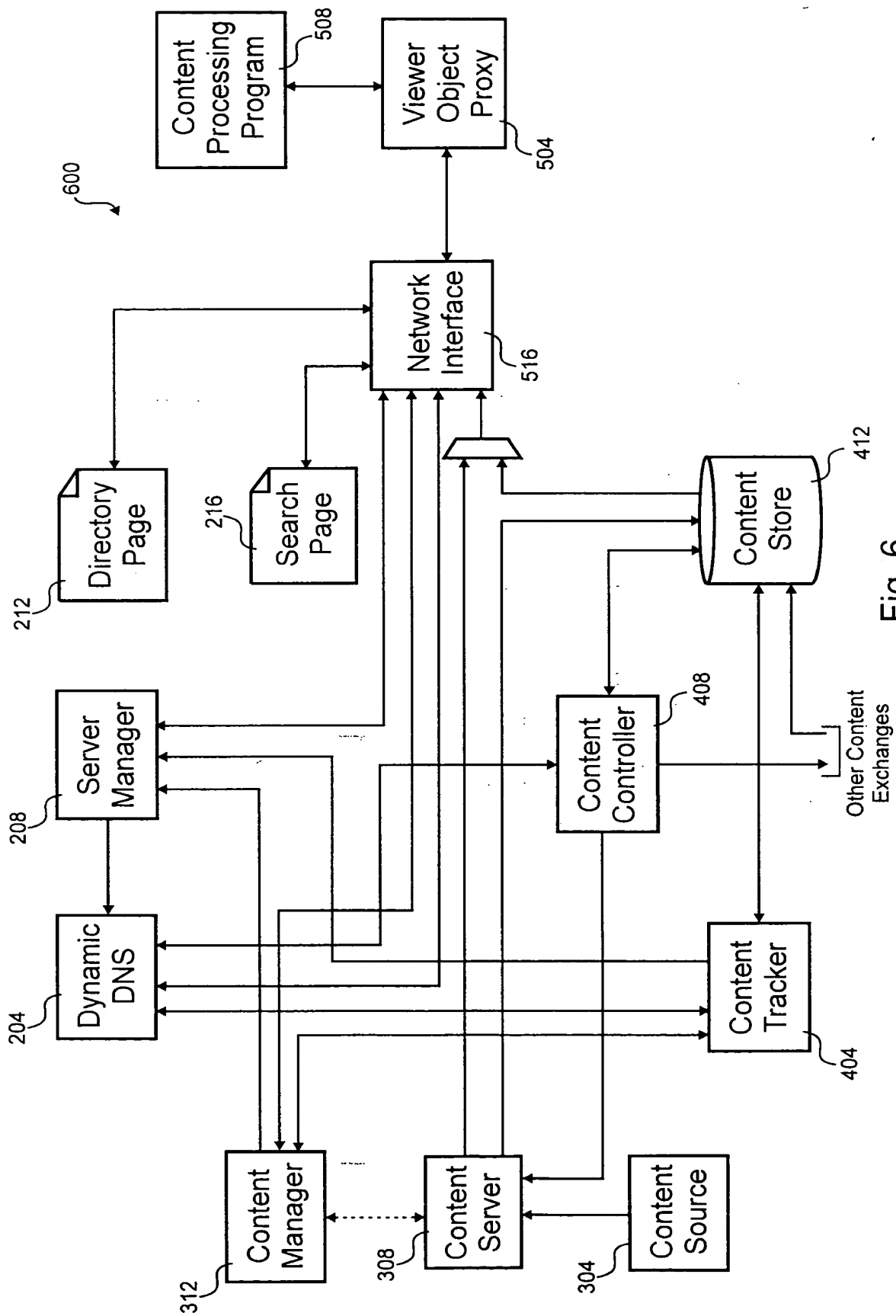


Fig. 6

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graph TD
    704[User Directs Browser to the Search Page] --> 708[User Queries Search Engine]
    708 --> 712[Server Manager Queries Server Database for Content Object]
    712 --> 716[Present Links to Content Managers]
    716 --> 720[User Clicks Link for Content Object]
    720 --> 724[Browser Object Proxy Sends Preference Information to Content Manager]
    724 --> 728[Content Manager Selects Source for Content Object]
    728 --> 732[Redirect Browser to Selected Source of Content Object]
    732 --> 736{Content Exchange or Content Server?}
    736 -- Content Exchange --> A((A))
    736 -- Content Server --> 740[Download Object from Content Server to Client Computer]
```

Fig. 7A

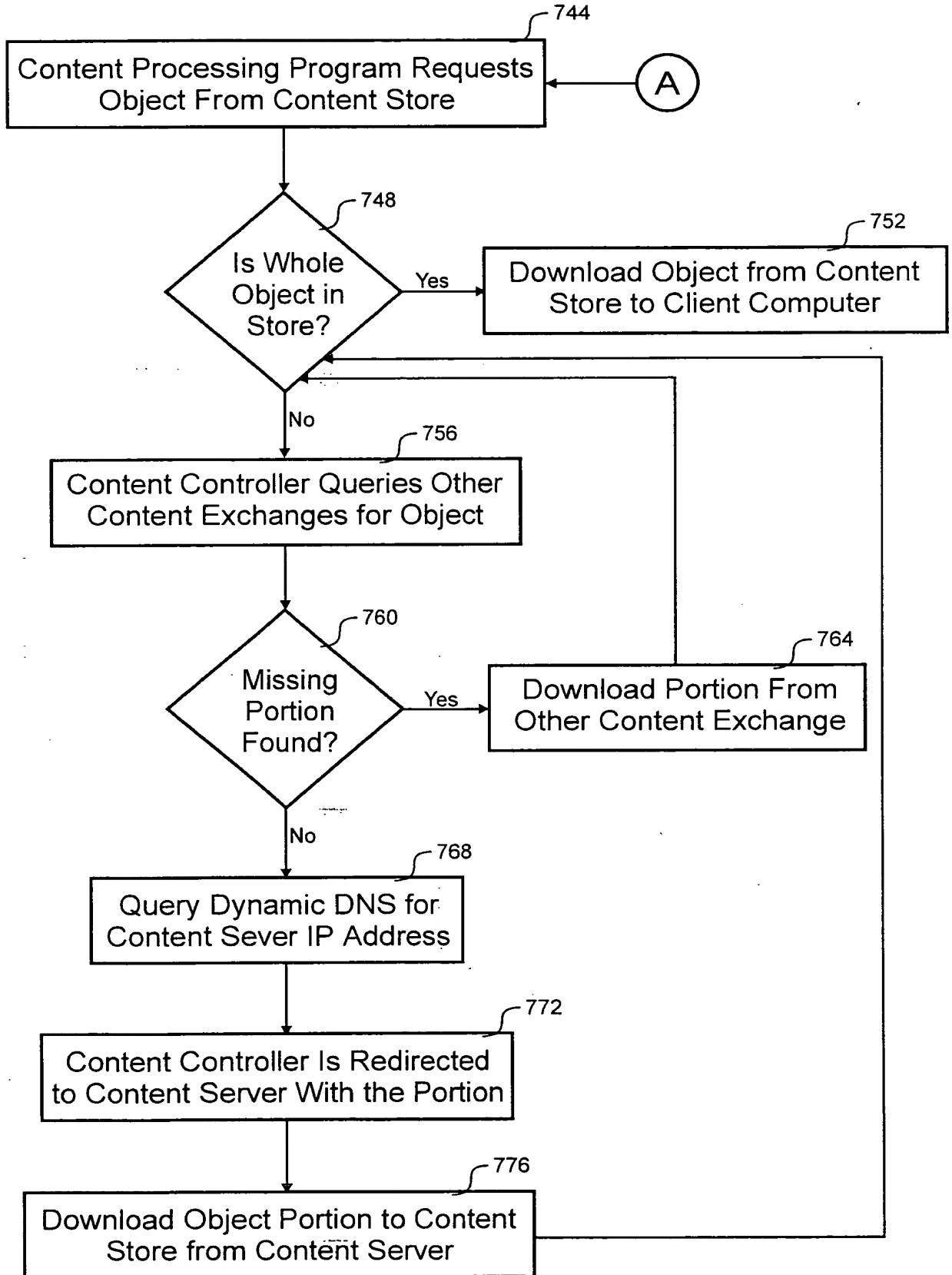


Fig. 7B

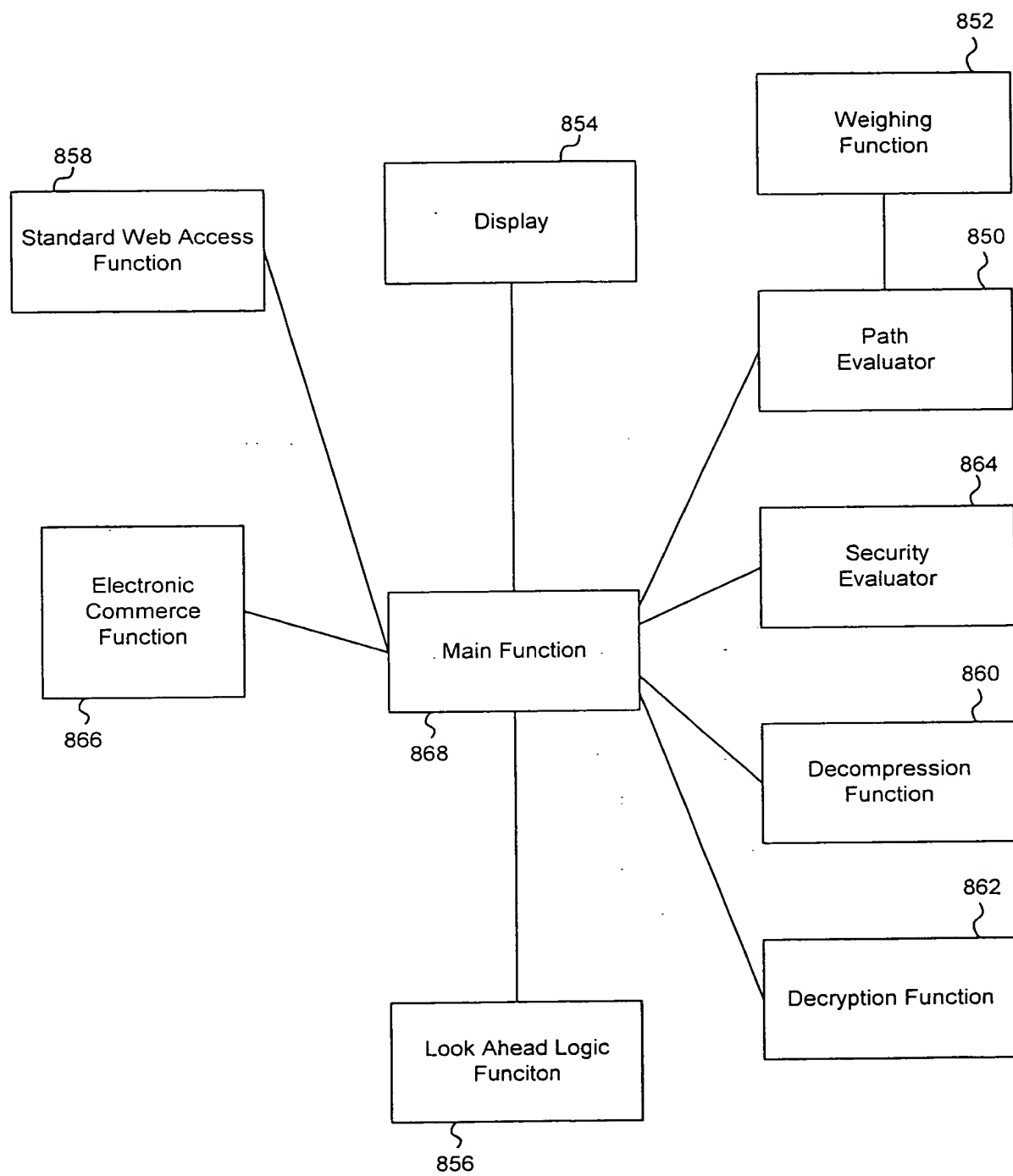


FIG. 8

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graph TD; 980[STARTUP] --> 982[SETUP]; 982 --> 984[Information Request and Receive]; 994[User Request] --> 984; 996[Time Interval] --> 984; 984 --> 986[Path QOS Evaluation]; 986 --> 988[Another Path]; 988 --> 990[Prioritize]; 990 --> 992[Display Results]; 900((900)) -.-> 984;
```

FIG. 9

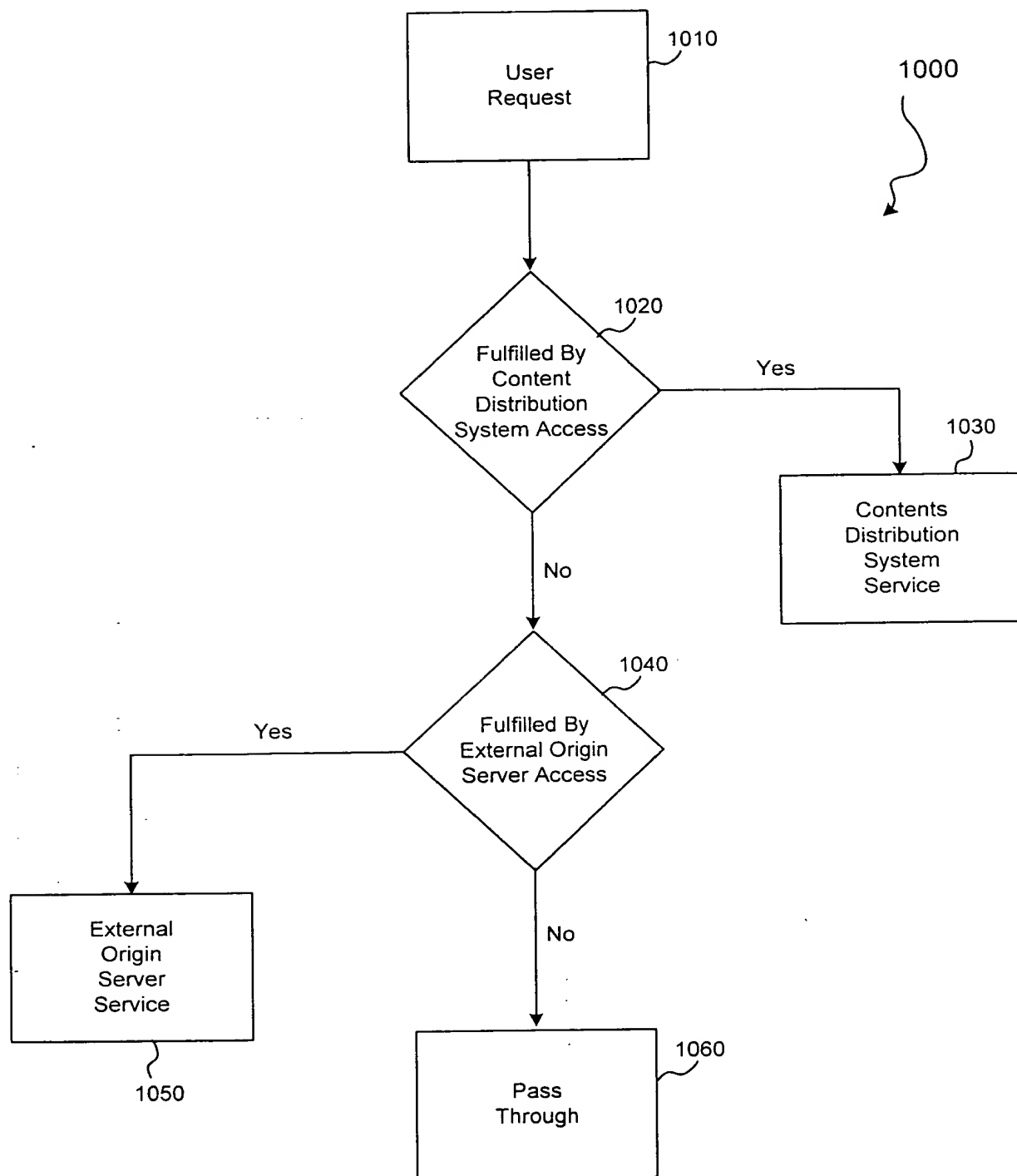


FIG. 10

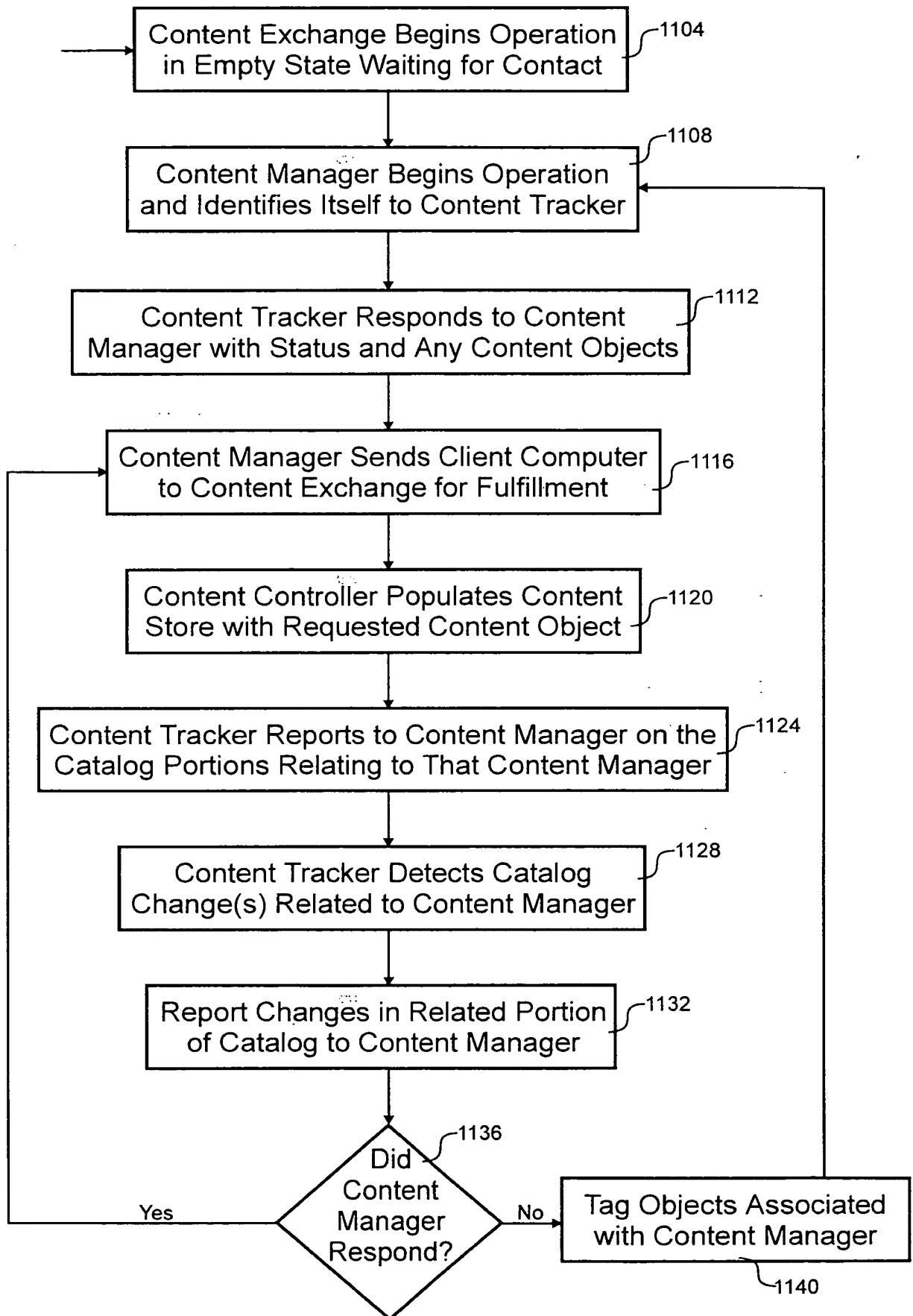


Fig. 11

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graph TD
    1204[Content Manager Sends Status Information to Server Manager] --> 1208[Server Manager Receives Status Information and Stores It in the Subscriber Database]
    1208 --> 1210[After Evaluating Loading, Server Manager Sends Report-Back Time Interval to Content Manager]
    1210 --> 1212[Content Manager Determines Local Content Catalog and Sends It to Server Manager]
    1212 --> 1216[Server Manager Receives Local Content Catalog and Stores It in the Sever Database]
    1216 --> 1220[Set Timeout Value for Next Content Manager Update]
    1220 --> 1224{Timeout Expired?}
    1224 -- No --> 1228{Contact by Content Manager?}
    1228 -- No --> 1224
    1228 -- Yes --> 1232[Reset Timeout Value]
    1232 --> 1204
    1224 -- Yes --> 1236[Purge Entries From Subscriber and Server Databases]
    1236 --> 1204

```

Fig. 12

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graph TD
    1304[Origin Server Begins Operation and Waits for Configuration] --> 1308[Administrator Configures Content Manager to Publish Content Objects on Content Server]
    1308 --> 1312[Origin Server Contacts Server Manager to Update Subscriber Database]
    1312 --> 1316[Content Manager Contacts the Server Manager to Publish Content Catalog]
    1316 --> 1320[Server Manager Creates Entries in Server Database for New Content Objects]
    1320 --> 1324[Server Manager Sends Interval Time to Content Manager]
    1324 --> 1328{Wait for Interval Time to Expire}
    1328 -- Wait --> 1328
    1328 -- Timeout --> 1332[Update Local Content Catalog with Any Changes]
    1332 --> 1316

```

Fig. 13

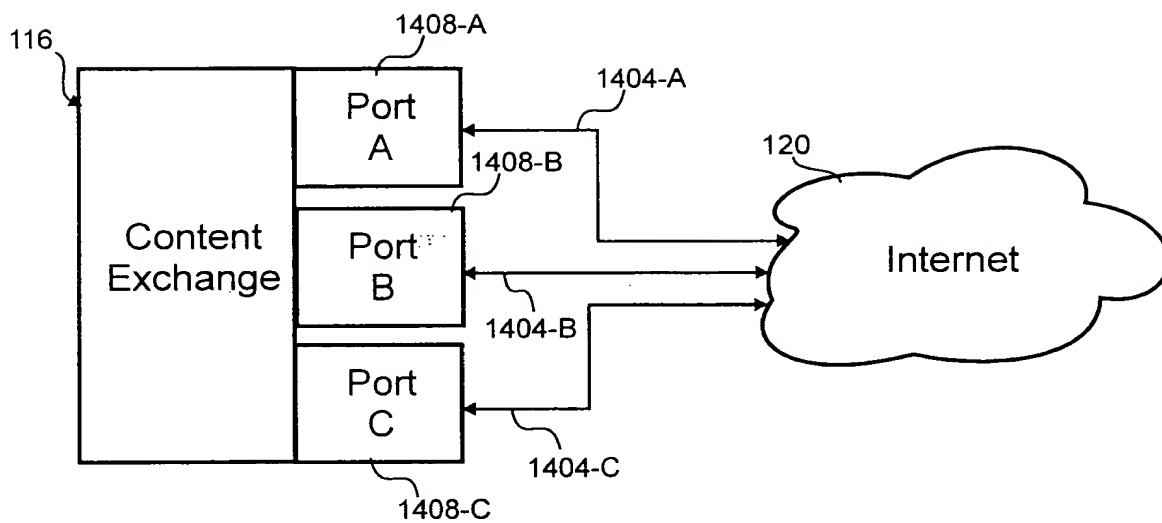


Fig. 14

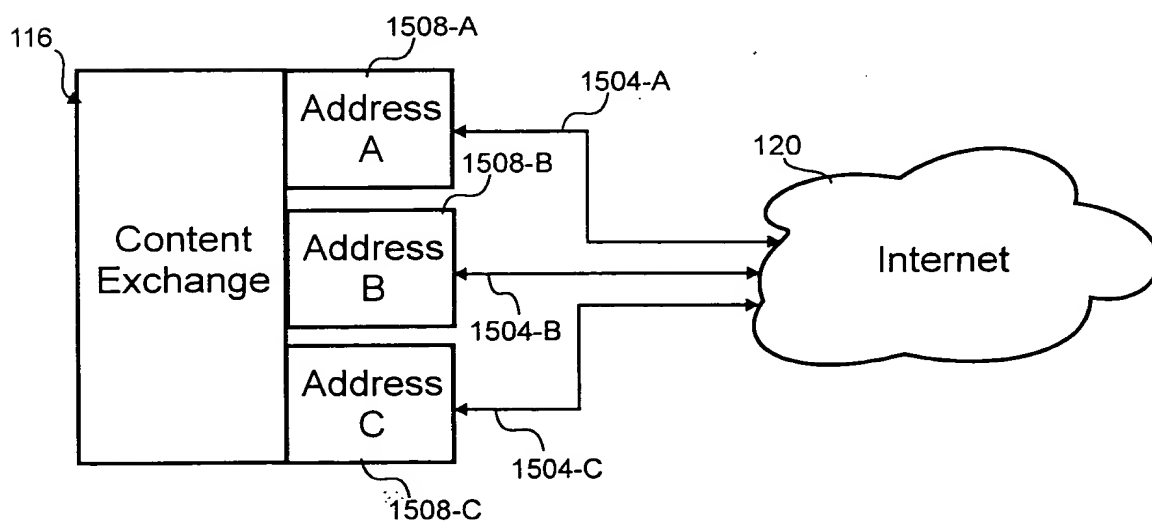


Fig. 15

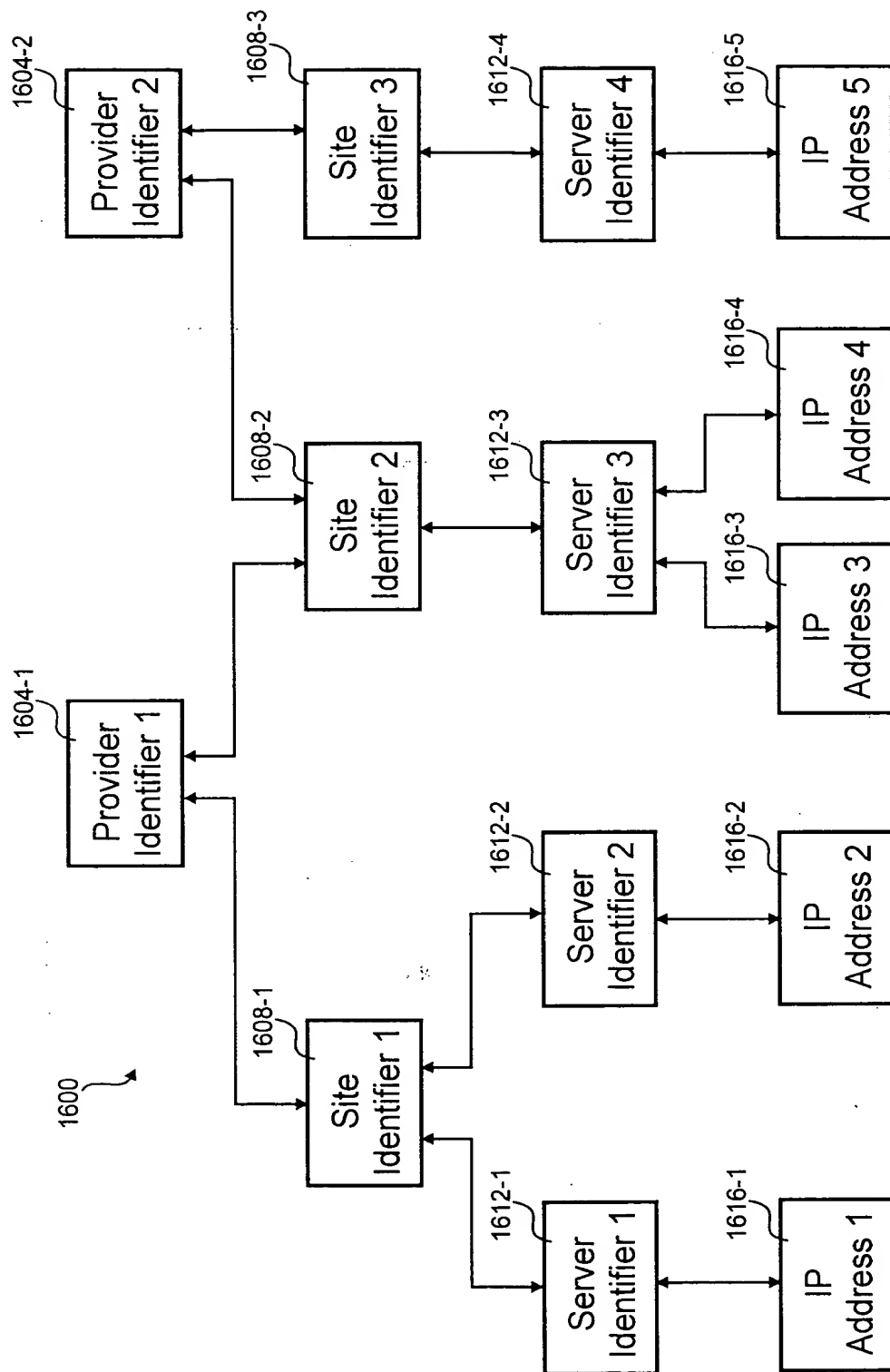


Fig. 16

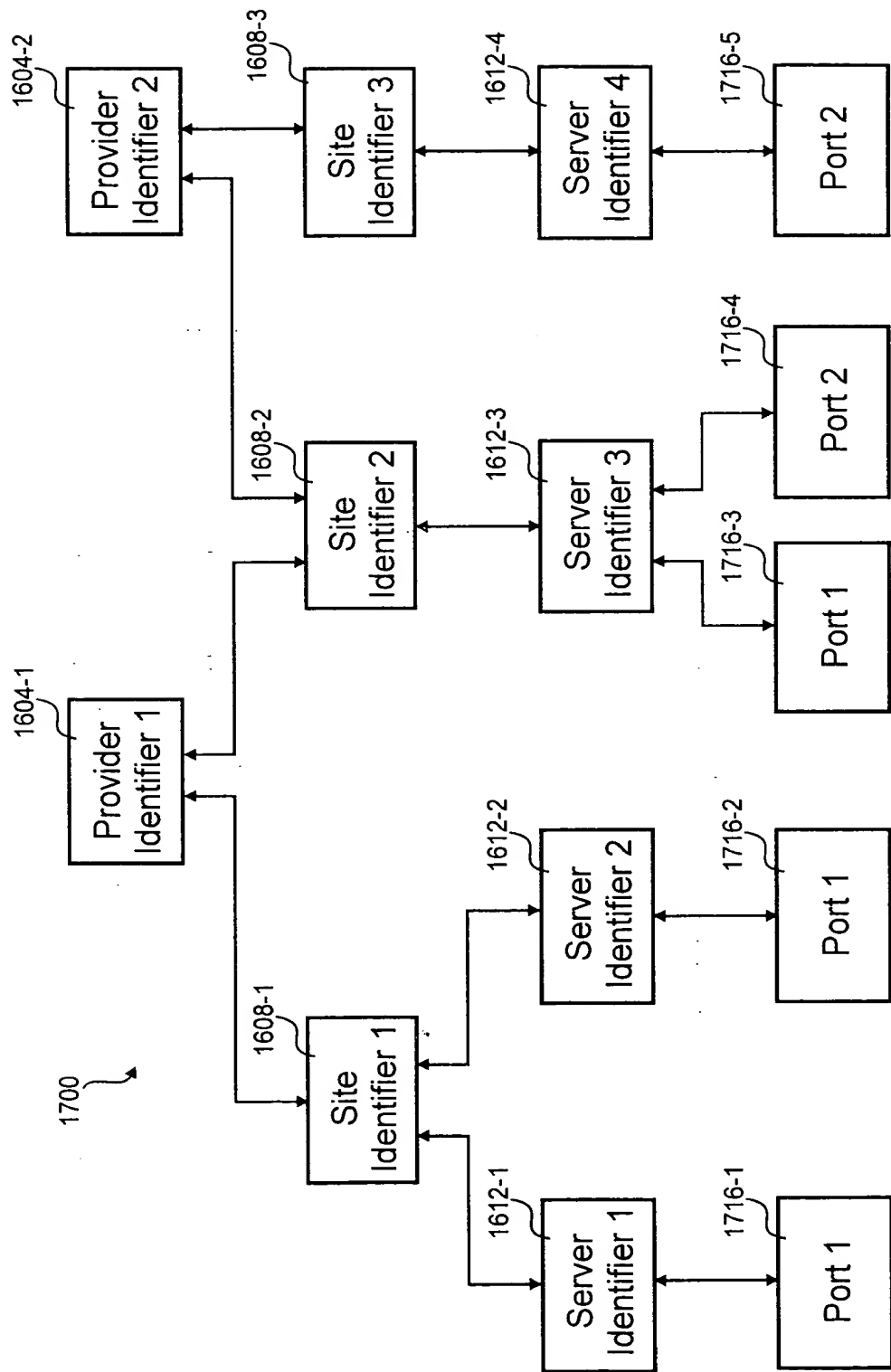


Fig. 17